

DESCRIPTION

AMC MODEL SW-2181-3AT-A3072 IS AN ABSORPTIVE SP3T SWITCH MODULE WITH INTEGRAL TTL DRIVER, DESIGNED TO OPERATE WITH A SINGLE POSITIVE SUPPLY VOLTAGE.

SPECIFICATIONS

- FREQUENCY RANGE 2.7-2.9 GHz MINIMUM
- INSERTION LOSS 2.0 dB MAXIMUM
- ISOLATION 80 dB MINIMUM
- RETURN LOSS (ON/OFF) -16dB MINIMUM
- RF POWER HANDLING 1 WATT CW MAXIMUM
- SWITCHING TIME
 - RISE (10% RF TO 90% RF) 500 ns MAXIMUM
 - FALL (90% RF TO 10% RF) 500 ns MAXIMUM
 - ON (50% TTL TO 90% RF) 1 μ s MAXIMUM
 - OFF (50% TTL TO 10% RF) 1 μ s MAXIMUM
- CONTROLS TTL COMPATIBLE, UNITY LOAD
3 INDIVIDUAL CONTROLS
LOGIC "0" = INSERTION LOSS
LOGIC "1" = ISOLATION
(SEE TRUTH TABLE)
- SUPPLY POWER +5VDC \pm 5% @ 200 mA MAXIMUM
- CONNECTORS
 - RF INPUT SMA MALE
 - RF OUTPUT SMA FEMALE
 - POWER SOLDER PIN
 - CONTROL SOLDER PIN
- SIZE 1.63" x 1.50" x 0.50"

TRUTH TABLE			
B1	B0	RF PATH	
0	1	J4-J1	
1	0	J4-J2	
1	1	J4-J3	

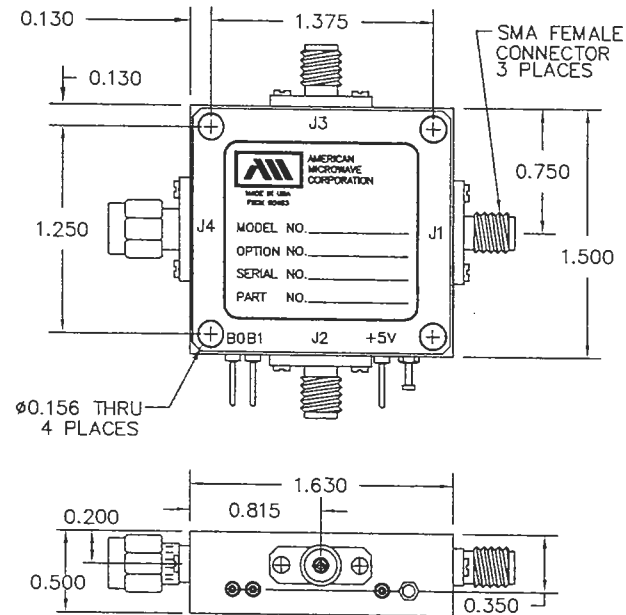
AVAILABLE OPTIONS

- A01 50 Ω CONTROL IMPEDANCE
- A02 100 Ω CONTROL IMPEDANCE
- A03 INVERSE CONTROL LOGIC (LOGIC "0" ISOLATION)
- A04 VIDEO FILTER (0.5 dB EXCESS LOSS)
- A05 2 BIT BINARY DECODER
- A06 EXTENDED FREQUENCY RANGE (CONSULT FACTORY)
- A13 J4 SMA MALE, J1-J3 SMA FEMALE
- A14 J4 SMA FEMALE, J1-J3 SMA MALE
- A16 +9 VDC TO +18 VDC SUPPLY

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

- NOTES:
- 1) DIMENSIONS ARE IN INCHES
 - 2) TOLERANCES: X.XX \pm 0.020
X.XXX \pm 0.010
 - 3) WEIGHT: APPROX. 2.5 OZ

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE JOB# 207177-3	11/22/92	
	B	SEE ECN# 04-043	3/31/04	
	C	SEE ECN# 04-062	5/6/04	
	D	SEE ECN# 04-073	5/14/04	



ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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APPROVALS		DATE	TITLE			
DRAWN WSP		11/22/92	PRODUCT FEATURE SW-2181-3AT-A3072			
REDRAWN JDJ		8/17/04	2.7 TO 2.9 GHz, NON-REFLECTIVE, SP3T SWITCH MODULE			
ISSUED M		7/24	SIZE A	FSCM NO. 60483	DWG NO. 100-2905	REV. D
SCALE N:S			SHEET 1 OF 3			